

AMENDMENTS TO THE SPECIFICATION

Please replace the abstract with the following amended abstract:

-- ~~The phases of distortions of a signal outputted from an amplifier are measured.~~ A phase measurement device measures an output of an amplifier when an input signal having input frequency components ω_{10} and ω_{20} is fed to the amplifier, and ~~[[.]]~~ The phase measurement device includes multipliers for orthogonally transforming the output of the amplifier by means of ω_e , a phase acquisition section for acquiring phases θ_1 and θ_2 of the input frequency components ω_{10} and ω_{20} in the output of the multipliers, and θ_3 and θ_4 (third distortion), and θ_5 and θ_6 (fifth distortion) of the distortion components, a match time/phase measurement section for measuring a match time point Δt when θ_1 and θ_2 match each other ~~according to the acquisition result of the phase acquisition section~~, and a distortion component phase measurement section for measuring phases θ_3 to θ_6 ~~of the distortion components~~ at the match time point Δt ~~according to the acquisition result of the phase acquisition section~~. The phase acquisition section acquires at least one of θ_1 and θ_2 , and θ_3 and θ_5 (with the frequencies higher than those of θ_1 and θ_2) or θ_4 and θ_6 (with the frequencies lower than those of θ_1 and θ_2). --